

## ABSTRACT OF THE DISCLOSURE

METHOD OF DISTRIBUTING COMMUNICATIONS WITHIN A CELL  
OF A RADIO-COMMUNICATION NETWORK, AND A  
CORRESPONDING DEVICE AND BASE STATION.

The invention relates to a method of distributing communications established by radio-communication terminals, within a geographic cell of a radio-communication network, the geographic cell being sub-divided into at least two geographic sectors.

According to this invention, the method comprises a step of modifying, by rotation, the orientation of the sectors within said cell.

10

Figure 2b

3 / 4

41 → Y    Rate( $S_i$ ) ≥ Rate\_Max    N  
 $\forall i \in [1, N]$

42 →      Choice of  $S_{sat}$  such that  
 $Rate(S_{sat}) = \max(Rate(S_i))$

43 →      Measurement of Rate( $S_i$ ) for the 2 sectors  
 $S_{sat-1}$  and  $S_{sat+1}$  adjacent to  $S_{sat}$

44 →      Determination of the sector  $S_{min}$  such that  
 $Rate(S_{min}) = \min(Rate(S_{sat-1}), Rate(S_{sat+1}))$

Time T  
49

45 →      Rotation through an angle  $\alpha$  in the  
direction from  $S_{sat}$  towards  $S_{min}$

46 →      Measurement of Rate( $S'_i$ )  
 $\forall i \in [1, N]$

47 →      Y    An  $S'_i$  exists such that    N  
 $Rate(S'_i) \geq Rate(S_{sat})$

48' →              New  
Position  
Established

Fig. 4a

4 / 4

41' →    Y    $\text{Nblinks}(S_i) \geq \text{NbLinks\_Max}$    N  
 $\forall i \in [1, N]$

42' →      Choice of  $S_{sat}$  such that  
 $\text{NbLinks}(S_{sat}) = \max(\text{NbLinks}(S_i))$

43' →      Measurement of  $\text{NbLinks}(S_i)$  for the 2 sectors  
 $S_{sat-1}$  and  $S_{sat+1}$  adjacent to  $S_{sat}$

44' →      Determination of the sector  $S_{min}$  such that  
 $\text{NbLinks}(S_{min}) = \min(\text{NbLinks}(S_{sat-1}), \text{NbLinks}(S_{sat+1}))$

Time T  
49

45' →      Rotation through an angle  $\alpha$  in the  
direction from  $S_{sat}$  towards  $S_{min}$

46' →      Measurement of  $\text{NbLinks}(S'_i)$   
 $\forall i \in [1, N]$

47'  $\rightarrow$  Y An  $S'_i$  exists such that N  
 $NbLinks(S'_i) \geq NbLinks(S_{sat})$

48' → New  
Position  
Established

Fig. 4b